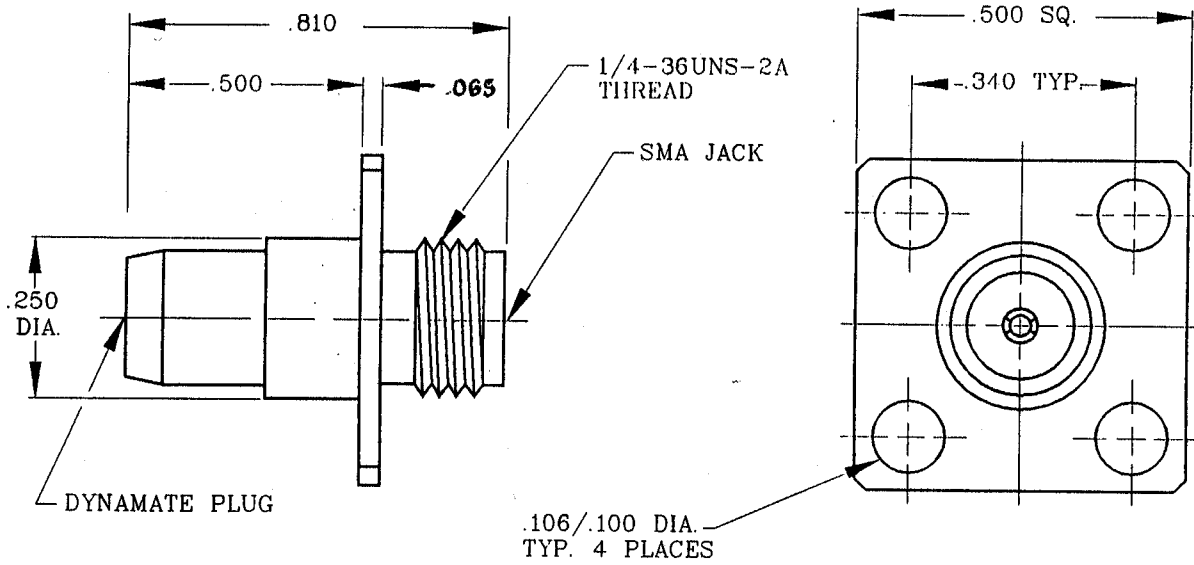


# SPECIFICATION CONTROL DRAWING



1. MATING INTERFACE DIMENSIONS PER MIL-STD-348, Fig. 310-2 (SMA, JACK) AND DYNAWAVE DRAWING MD-28 (DYNAMATE, PLUG).

## 2. ELECTRICAL

FREQUENCY RANGE GHz	DC TO 20.0 GHz.
VSWR (MAX) * (FULLY MATED)	1.05 + .007 x FGHz.
INSERTION LOSS (dB MAX)	.035 dB x $\sqrt{\text{FGHz}}$ .
NOMINAL IMPEDANCE (OHMS)	50
VOLTAGE RATING (MAX. VRMS)	250
RF LEAKAGE (MIN. dB DOWN)	100 dB - FGHz
TEMPERATURE RATING (DEGREES CENTIGRADE)	-65°c TO + 165°c
DIELECTRIC WITHSTANDING VOLTAGE (MAX. VRMS)	1,000
INSULATION RESISTANCE (MIN. MEGOHMS)	10,000
CONTACT RESISTANCE	
• CENTER CONTACT (MAX. MILLIOHMS)	6.0
• OUTER CONTACT (MAX. MILLIOHMS)	2.0

\* TERMINATED IN A 50 OHM LOAD

REV.	DCN NO.	DATE	APP.	DIMENSIONS ARE IN INCHES TOLERANCES			 GEORGETOWN MA. 01833
				DECIMALS X ± .030 .XX ± .010 .XXX ± .005	FRACTIONAL ± 1/64	ANGULAR X° ± 1' 0" X' ± 15'	
-	753	6/90	T.S.	SURFACE ROUGHNESS 63 √ MIL-STD 10.			
				DRAWN T.S.	DATE 6/90	TITLE DYNAMATE, PLUG SMA, JACK, 4 HOLE SQ. FLANGE ADAPTER	
				APPROVED <i>DGG</i>	DATE 6/90		
				CODE IDENT. 2J899	SHEET 1 of 2	DWG. NO. 1154-2899-6250	

# SPECIFICATION CONTROL DRAWING

## 3. MECHANICAL

### CAPTIVATION-CENTER CONTACT

- MIN. AXIAL FORCE (BOTH) \_\_\_\_\_ 6.0 LBS.
- MIN. RADIAL TORQUE \_\_\_\_\_ N/A

### DYNAMATE ENGAGEMENT FORCES

- INSERTION (MAX OUNCES) \_\_\_\_\_ 48.0
- WITHDRAWAL (MIN. OUNCES) \_\_\_\_\_ 4.0

SMA AND DYNAMATE DURABILITY (MIN. MATING) \_\_\_\_\_ 1,000

SMA ENGAGEMENT FORCES (TORQUE) \_\_\_\_\_ 7 - 10 INCH LBS.

## 4. ENVIRONMENTAL

TEMPERATURE CYCLING \_\_\_\_\_ MIL-STD-202, METHOD 102, COND. C ( -85 ° c TO + 200 ° c )

SHOCK \_\_\_\_\_ MIL-STD-202, METHOD 213, COND. I (100 G's)

VIBRATION \_\_\_\_\_ MIL-STD-202, METHOD 204, COND. D (20 G's)

MOISTURE RESISTANCE \_\_\_\_\_ MIL-STD-202, METHOD 106, LESS STEP 7b

CORROSION \_\_\_\_\_ MIL-STD-202, METHOD 101, COND. B (48 HOURS)

BAROMETRIC PRESSURE (ALTITUDE) \_\_\_\_\_ MIL-STD-202, METHOD 105, COND. C ( 70,000 FT. ) ( 190 VRMS )

## 5. MATERIAL

CONNECTOR BODY, COIL SPRINGS, LOCKWASHER \_\_\_\_\_ STAINLESS STEEL PER AMS-5640, TYPE 303, COND. A  
AND MOUNTING NUT.

CENTER CONTACT \_\_\_\_\_ BERYLLIUM COPPER PER QQ-C-530, ALLOY 173 COND. HT

INSULATOR \_\_\_\_\_ TEFLON PER D-1457

## 6. FINISH

CONNECTOR BODY, COIL SPRINGS, LOCKWASHER \_\_\_\_\_ PASSIVATE PER QQ-P-35A, TYPE I.  
AND MOUNTING NUT.

CENTER CONTACT \_\_\_\_\_ GOLD PER MIL-G-45204, TYPE II, GRADE C, CLASS 2.  
(.000100 MINIMUM THICKNESS) OVER NICKEL PER  
QQ-N-290, CLASS 1 (.000100 MINIMUM THICKNESS) OVER  
COPPER PER MIL-C-14550 (.000010 MINIMUM THICKNESS)

INSULATOR \_\_\_\_\_ N/A

**dynawave**  
INCORPORATED

SHEET 2 of 2

DWG.  
NO.

1154-2899-6250

REV.

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